

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081821\  
 Data File : VN068191.D  
 Acq On : 18 Aug 2021 14:21  
 Operator : JC/MD  
 Sample : M3446-02DL 4X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RW6B-GW-20210816DL

Quant Time: Aug 19 03:06:33 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 13:09:49 2021  
 Response via : Initial Calibration

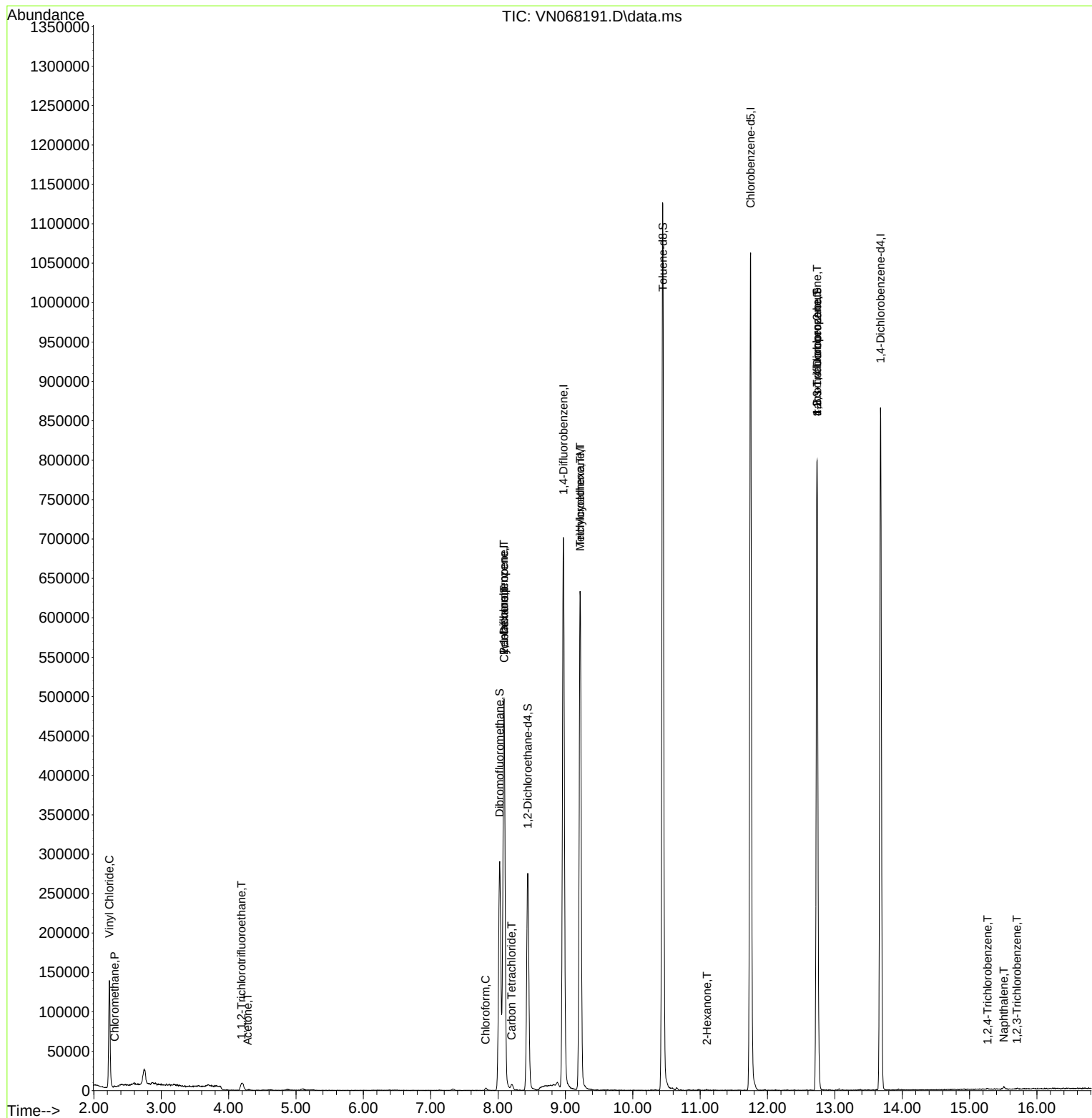
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.088     | 168   | 416421   | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.971     | 114   | 679166   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.749    | 117   | 693029   | 50.000    | ug/l       | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.677    | 152   | 262272   | 50.000    | ug/l       | 0.00     |
|                               |           |       |          |           |            |          |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.440     | 65    | 232985   | 52.400    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 61 - 141 | Recovery  | = 104.800% |          |
| 35) Dibromofluoromethane      | 8.024     | 113   | 214540   | 50.314    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 69 - 133 | Recovery  | = 100.620% |          |
| 50) Toluene-d8                | 10.446    | 98    | 825918   | 50.834    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 126 | Recovery  | = 101.660% |          |
| 62) 4-Bromofluorobenzene      | 12.736    | 95    | 266963   | 49.359    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 135 | Recovery  | = 98.720%  |          |
|                               |           |       |          |           |            |          |
| Target Compounds              |           |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.306     | 50    | 1047     | 0.281     | ug/l       | 99       |
| 4) Vinyl Chloride             | 2.231     | 62    | 1724     | 0.295     | ug/l       | # 1      |
| 5) Bromomethane               | 2.848     | 94    | 232      | Below Cal | #          | 60       |
| 6) Chloroethane               | 2.963     | 64    | 26       | Below Cal | #          | 44       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.191     | 101   | 3049     | 0.868     | ug/l       | # 60     |
| 13) Acrolein                  | 4.049     | 56    | 79       | Below Cal |            | 88       |
| 16) Acetone                   | 4.282     | 43    | 492      | 0.379     | ug/l       | # 48     |
| 18) Methyl Acetate            | 4.862     | 43    | 1650     | Below Cal | #          | 81       |
| 20) Methylene Chloride        | 5.095     | 84    | 918      | Below Cal | #          | 63       |
| 30) Chloroform                | 7.815     | 83    | 2808     | 0.374     | ug/l       | 100      |
| 31) Cyclohexane               | 8.091     | 56    | 7202     | 1.230     | ug/l       | # 23     |
| 36) 1,1-Dichloropropene       | 8.088     | 75    | 27422    | 4.939     | ug/l       | # 51     |
| 38) Carbon Tetrachloride      | 8.201     | 117   | 4912     | 0.767     | ug/l       | # 78     |
| 39) Methylcyclohexane         | 9.220     | 83    | 2941     | 0.469     | ug/l       | # 1      |
| 44) Trichloroethene           | 9.217     | 130   | 247803   | 48.629    | ug/l       | 80       |
| 59) 2-Hexanone                | 11.100    | 43    | 947      | 0.293     | ug/l       | 65       |
| 76) 1,2,3-Trichloropropane    | 12.736    | 75    | 137306   | 31.498    | ug/l       | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.736    | 75    | 137306   | 103.192   | ug/l       | # 6      |
| 93) 1,2,4-Trichlorobenzene    | 15.268    | 180   | 551      | 2.804     | ug/l       | # 79     |
| 95) Naphthalene               | 15.507    | 128   | 3566     | 3.668     | ug/l       | # 87     |
| 96) 1,2,3-Trichlorobenzene    | 15.702    | 180   | 599      | 2.967     | ug/l       | # 80     |
| -----                         |           |       |          |           |            |          |

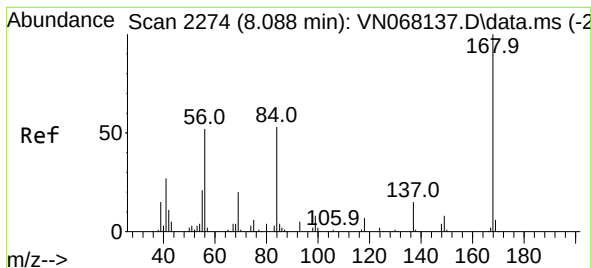
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.000 min

Lab File: VN068191.D

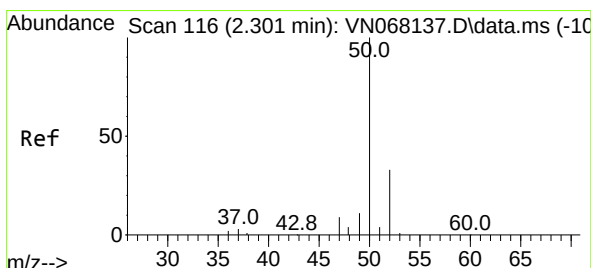
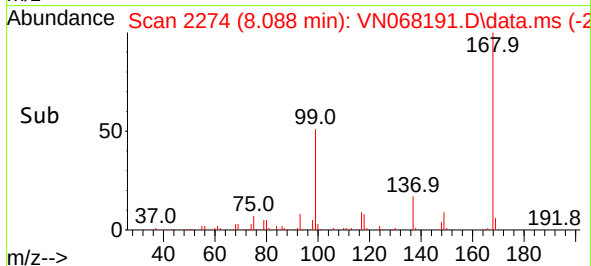
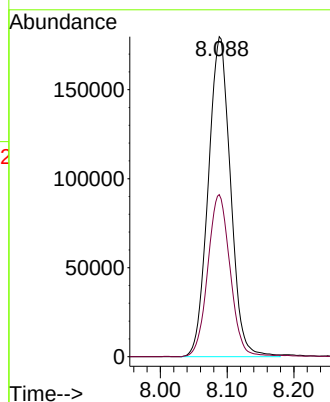
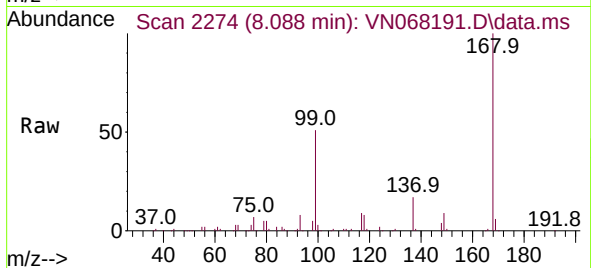
Acq: 18 Aug 2021 14:21

Tgt Ion:168 Resp: 416421

Ion Ratio Lower Upper

168 100

99 50.6 62.9 94.3#



#3

Chloromethane

Concen: 0.281 ug/l

RT: 2.306 min Scan# 118

Delta R.T. 0.005 min

Lab File: VN068191.D

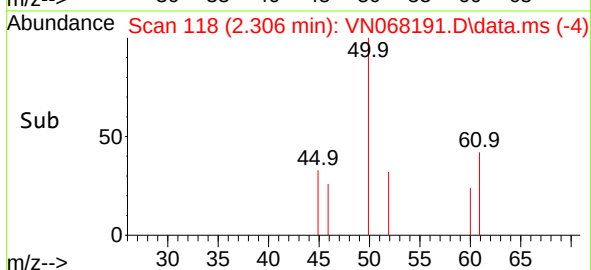
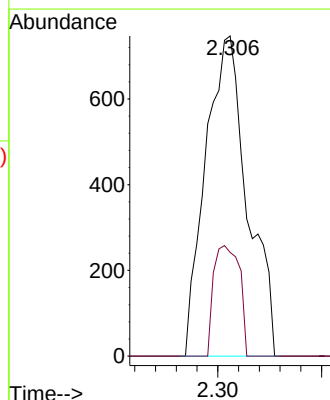
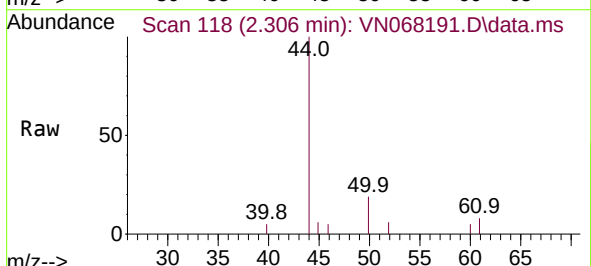
Acq: 18 Aug 2021 14:21

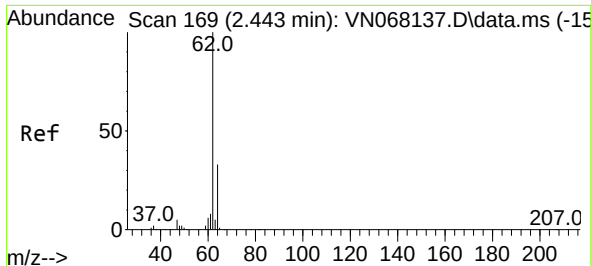
Tgt Ion: 50 Resp: 1047

Ion Ratio Lower Upper

50 100

52 32.4 25.6 38.4

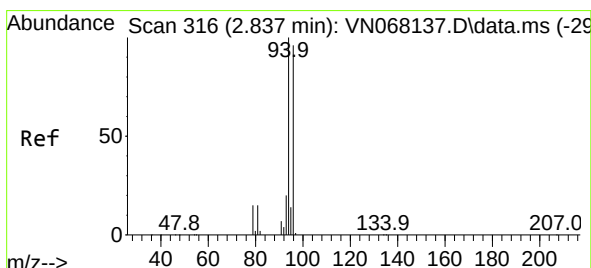
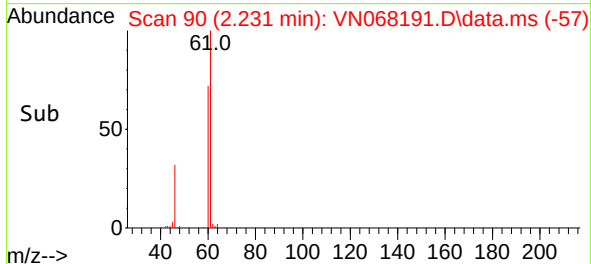
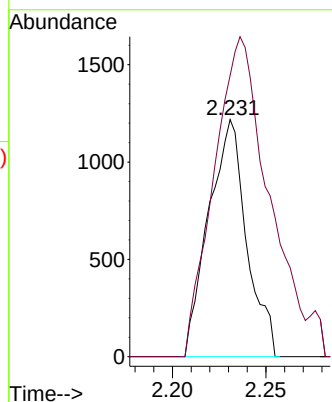
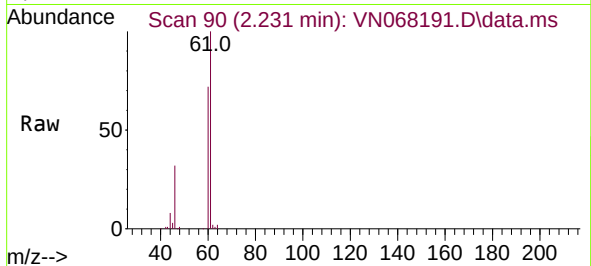




#4  
 Vinyl Chloride  
 Concen: 0.295 ug/l  
 RT: 2.231 min Scan# 90  
 Delta R.T. -0.212 min  
 Lab File: VN068191.D  
 Acq: 18 Aug 2021 14:21

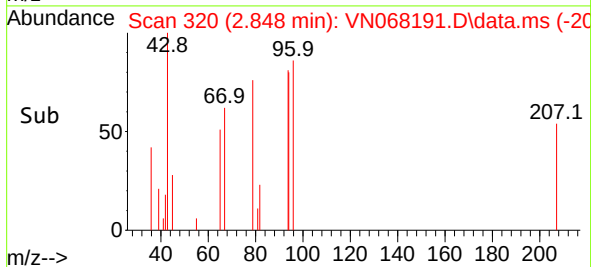
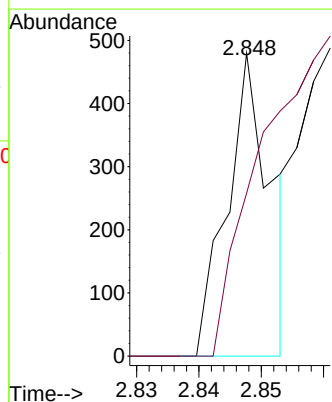
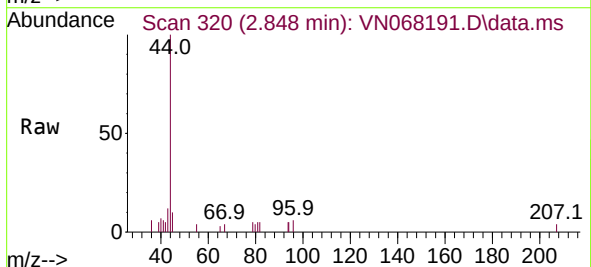
Instrument :  
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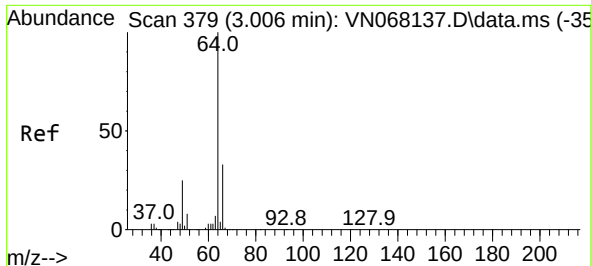
Tgt Ion: 62 Resp: 1724  
 Ion Ratio Lower Upper  
 62 100  
 64 118.6 24.4 36.6#



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 2.848 min Scan# 320  
 Delta R.T. 0.011 min  
 Lab File: VN068191.D  
 Acq: 18 Aug 2021 14:21

Tgt Ion: 94 Resp: 232  
 Ion Ratio Lower Upper  
 94 100  
 96 53.8 73.7 110.5#

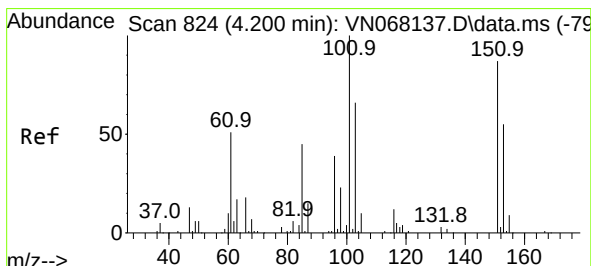
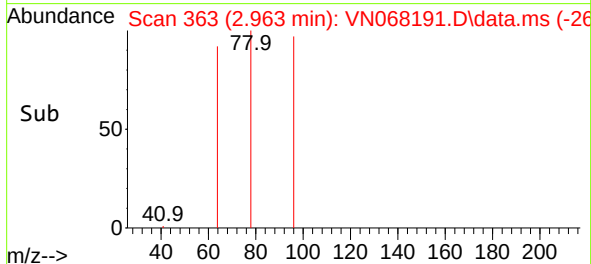
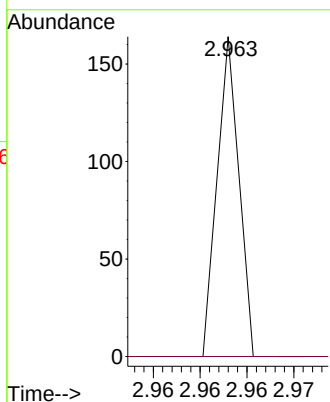
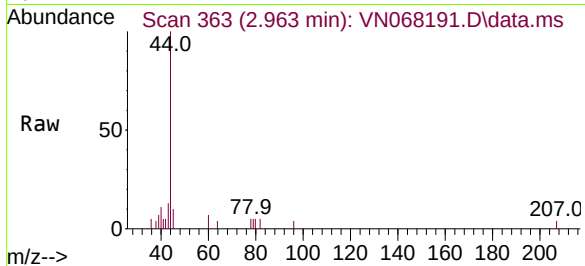




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.963 min Scan# 363  
Delta R.T. -0.043 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

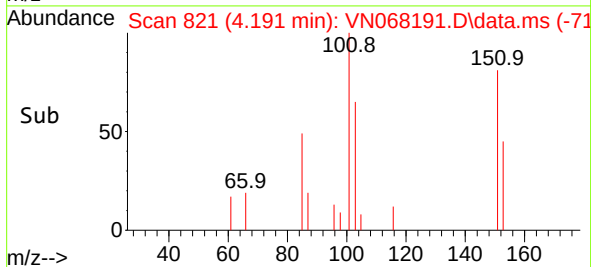
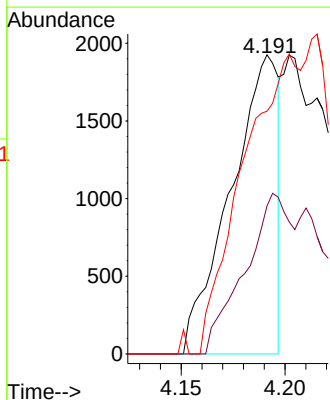
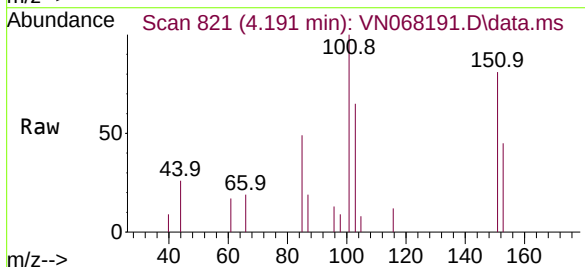
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RW6B-GW-20210816DL

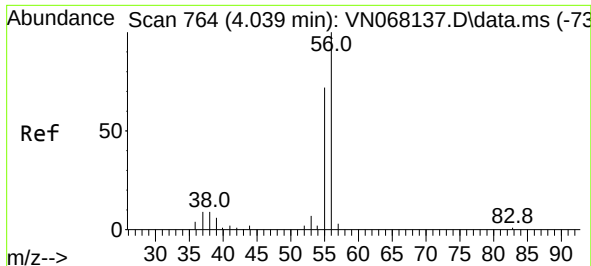
Tgt Ion: 64 Resp: 26  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.7 37.1#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.868 ug/l  
RT: 4.191 min Scan# 821  
Delta R.T. -0.009 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion: 101 Resp: 3049  
Ion Ratio Lower Upper  
101 100  
85 53.0 39.6 59.4  
151 120.6 54.1 81.1#

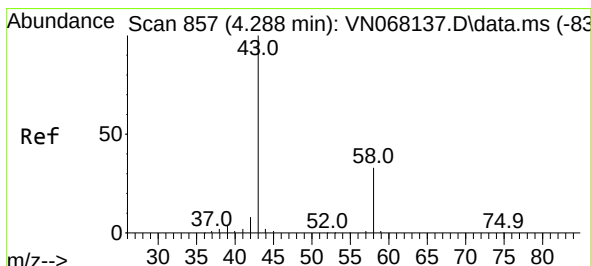
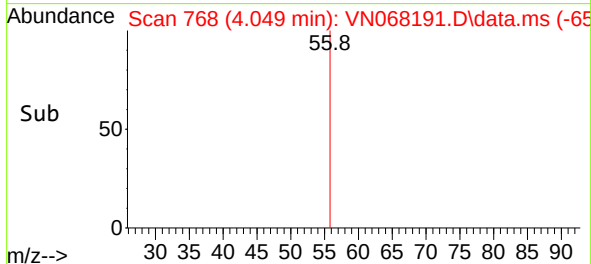
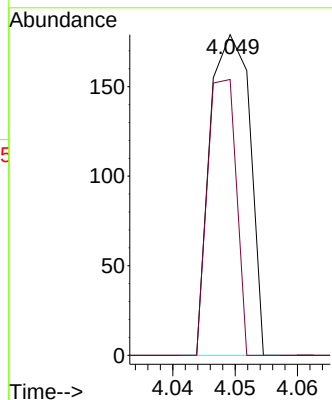
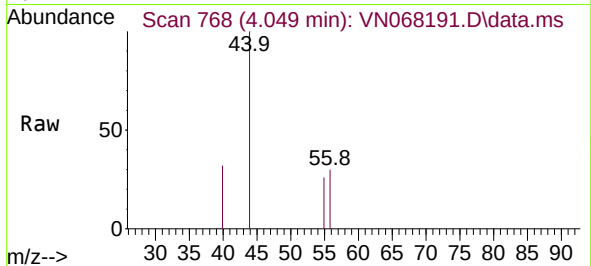




#13  
Acrolein  
Concen: Below Cal  
RT: 4.049 min Scan# 768  
Delta R.T. 0.010 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

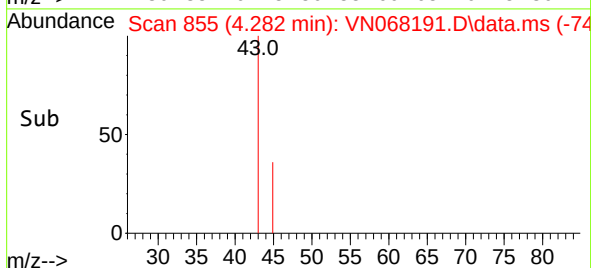
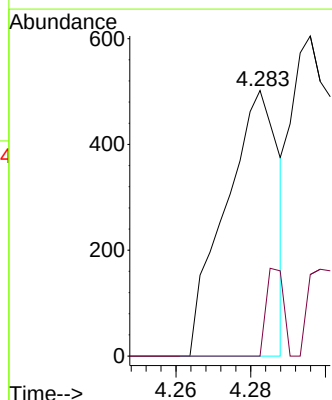
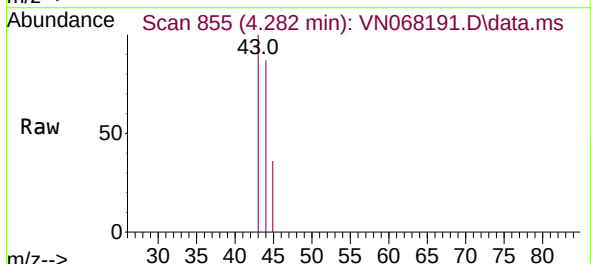
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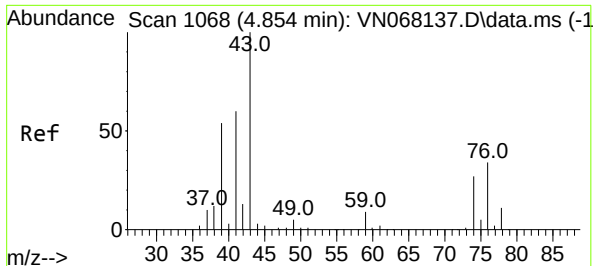
Tgt Ion: 56 Resp: 79  
Ion Ratio Lower Upper  
56 100  
55 62.0 57.4 86.0



#16  
Acetone  
Concen: 0.379 ug/l  
RT: 4.282 min Scan# 855  
Delta R.T. -0.006 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion: 43 Resp: 492  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.2 31.8#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.862 min Scan# 1071

Delta R.T. 0.008 min

Lab File: VN068191.D

Acq: 18 Aug 2021 14:21

Tgt Ion: 43 Resp: 1650

Ion Ratio Lower Upper

43 100

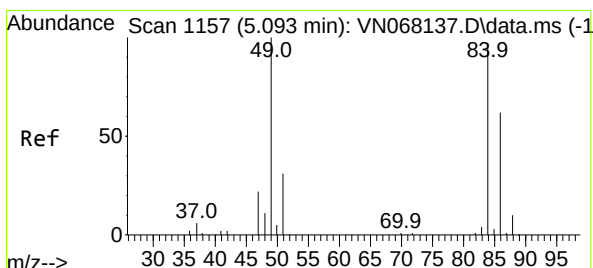
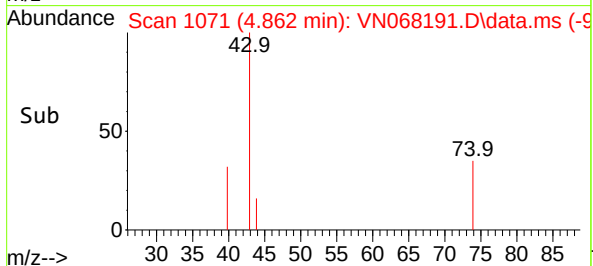
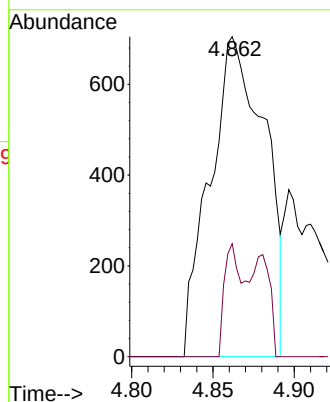
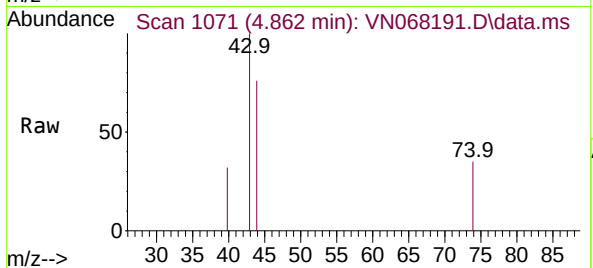
74 12.9 17.4 26.0#

Instrument :

MSVOA\_N

ClientSampleId :

RW6B-GW-20210816DL



#20

Methylene Chloride

Concen: Below Cal

RT: 5.095 min Scan# 1158

Delta R.T. 0.002 min

Lab File: VN068191.D

Acq: 18 Aug 2021 14:21

Tgt Ion: 84 Resp: 918

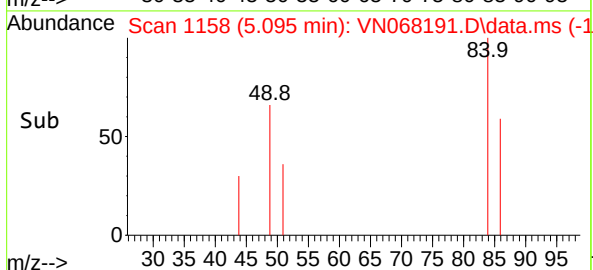
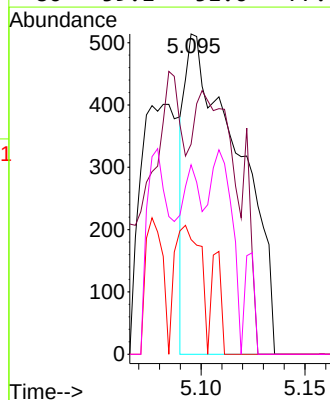
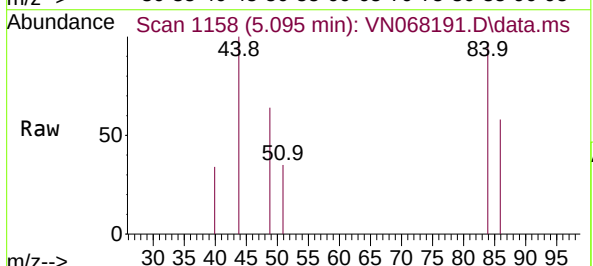
Ion Ratio Lower Upper

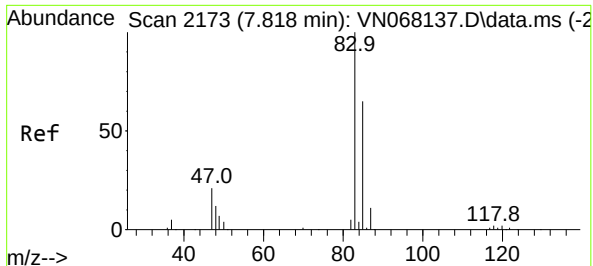
84 100

49 65.6 110.9 166.3#

51 35.8 32.6 49.0

86 59.1 51.6 77.4

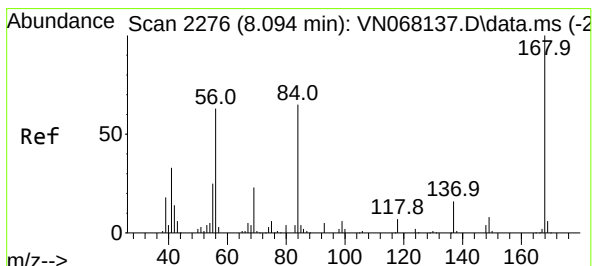
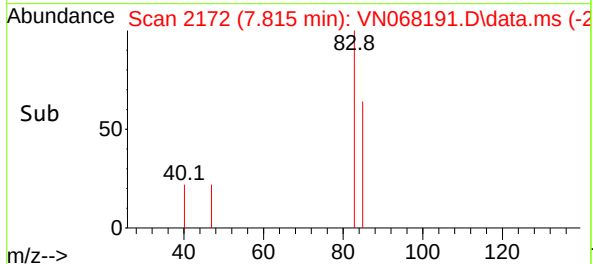
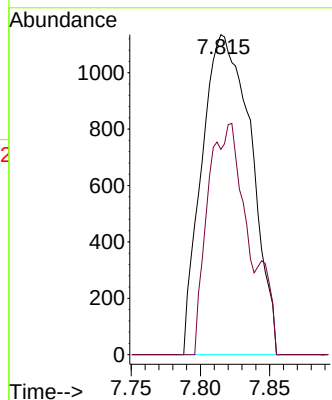
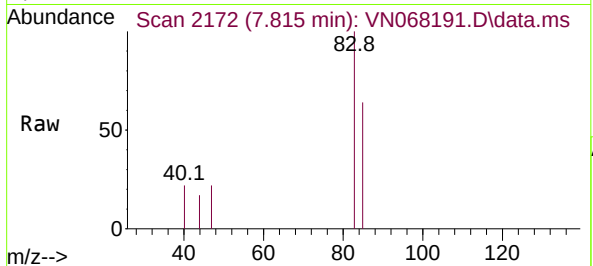




#30  
Chloroform  
Concen: 0.374 ug/l  
RT: 7.815 min Scan# 2172  
Delta R.T. -0.003 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

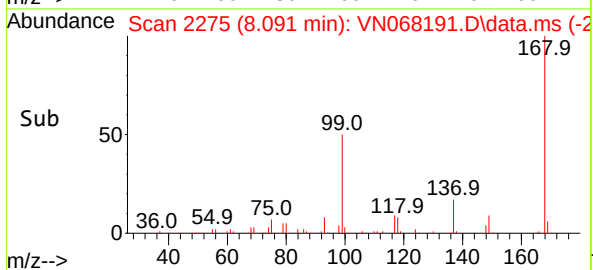
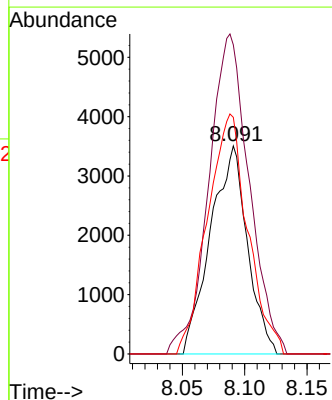
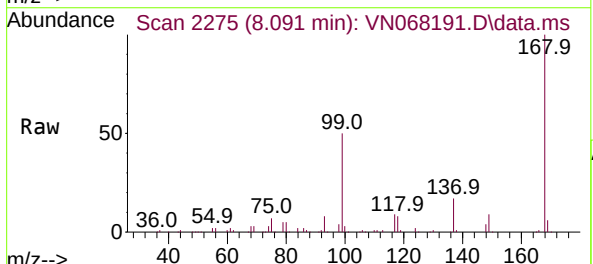
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RW6B-GW-20210816DL

Tgt Ion: 83 Resp: 2808  
Ion Ratio Lower Upper  
83 100  
85 64.1 51.5 77.3

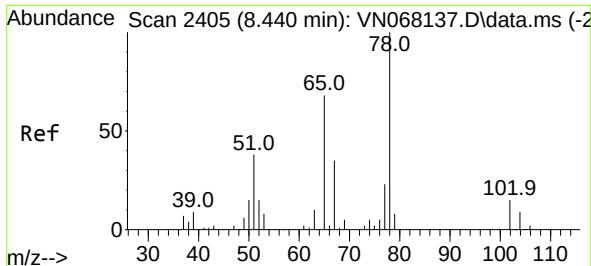


#31  
Cyclohexane  
Concen: 1.230 ug/l  
RT: 8.091 min Scan# 2275  
Delta R.T. -0.003 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion: 56 Resp: 7202  
Ion Ratio Lower Upper  
56 100  
69 140.7 27.3 40.9#  
84 109.0 64.9 97.3#



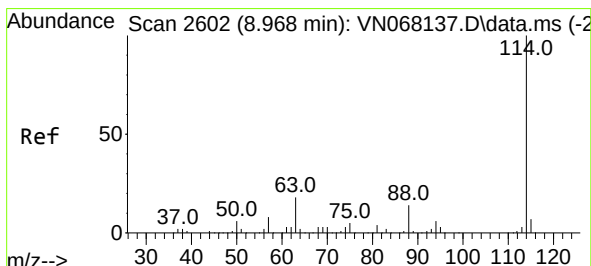
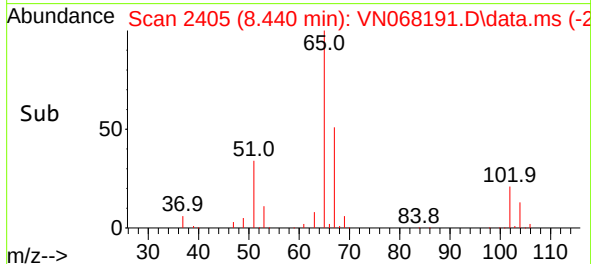
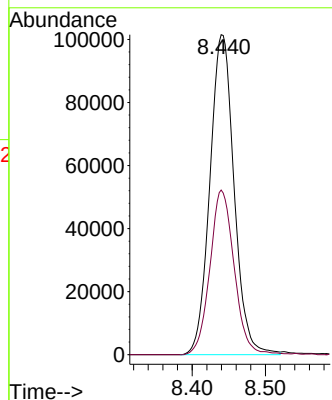
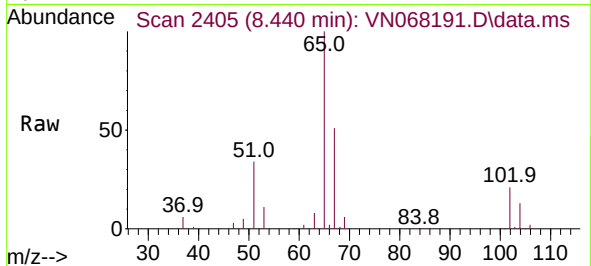




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.400 ug/l  
 RT: 8.440 min Scan# 2405  
 Delta R.T. -0.000 min  
 Lab File: VN068191.D  
 Acq: 18 Aug 2021 14:21

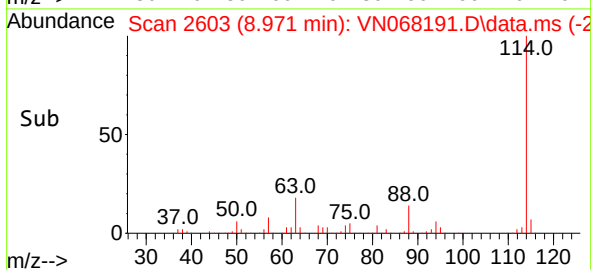
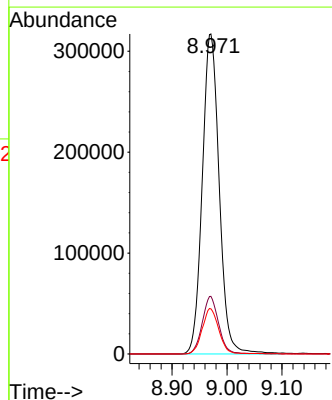
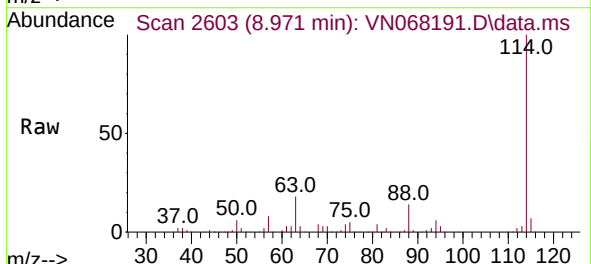
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 ClientSampleId :  
 RW6B-GW-20210816DL

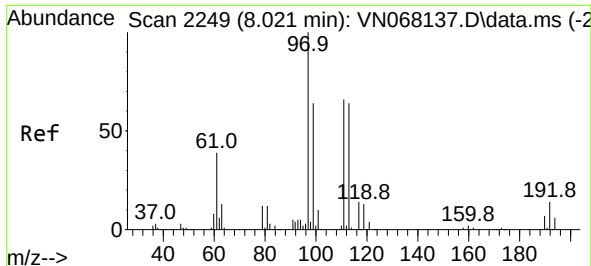
Tgt Ion: 65 Resp: 232985  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 98.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.971 min Scan# 2603  
 Delta R.T. 0.003 min  
 Lab File: VN068191.D  
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Tgt Ion: 114 Resp: 679166  
 Ion Ratio Lower Upper  
 114 100  
 63 18.0 0.0 49.0  
 88 14.1 0.0 36.6

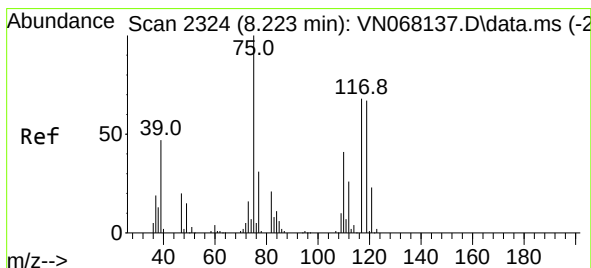
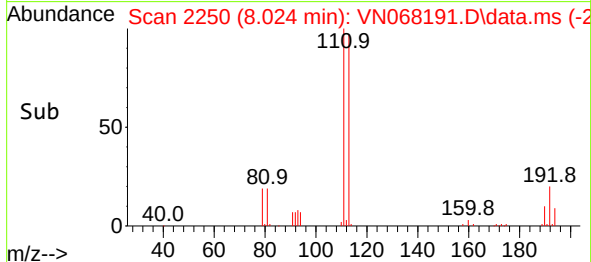
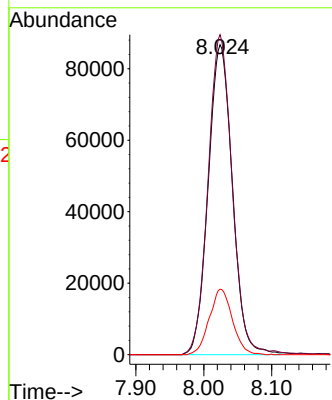
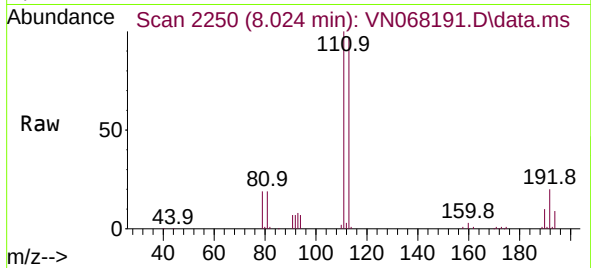




#35  
Dibromofluoromethane  
Concen: 50.314 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

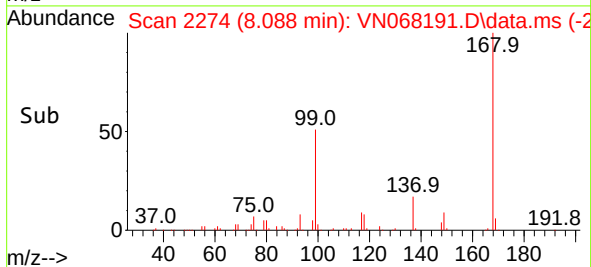
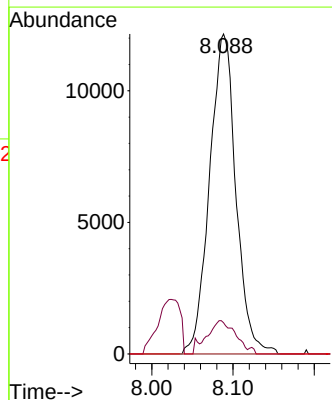
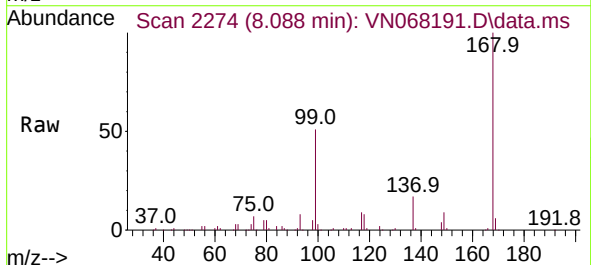
Instrument :  
MSVOA\_N  
ClientSampleId :  
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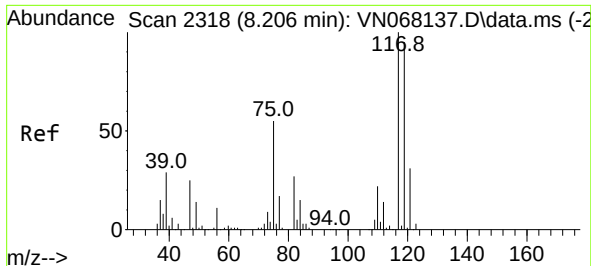
Tgt Ion:113 Resp: 214540  
Ion Ratio Lower Upper  
113 100  
111 102.2 83.8 125.8  
192 20.2 13.4 20.0#



#36  
1,1-Dichloropropene  
Concen: 4.939 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.135 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion: 75 Resp: 27422  
Ion Ratio Lower Upper  
75 100  
110 8.6 15.7 47.0#  
77 0.0 24.6 37.0#

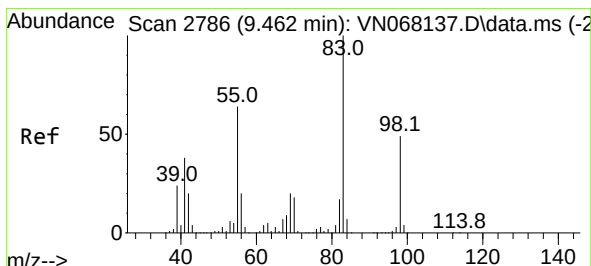
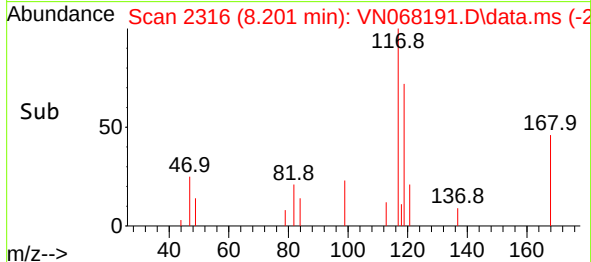
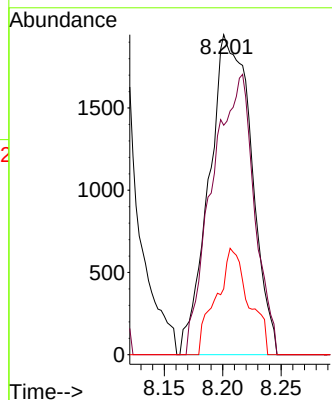
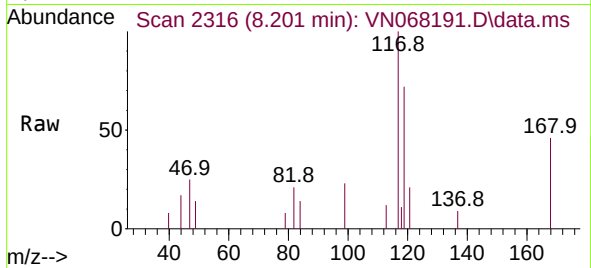




#38  
Carbon Tetrachloride  
Concen: 0.767 ug/l  
RT: 8.201 min Scan# 2316  
Delta R.T. -0.005 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

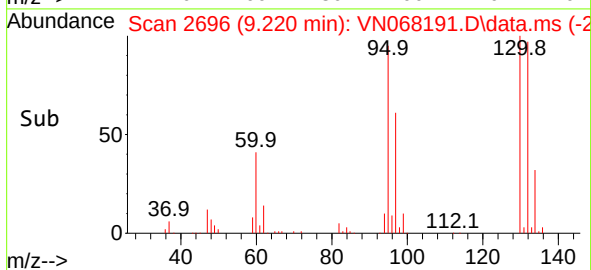
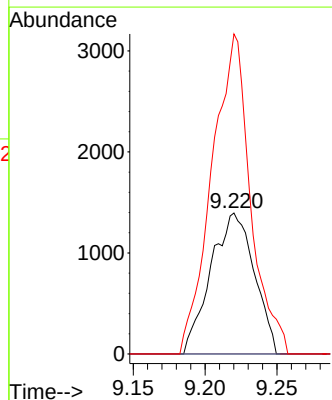
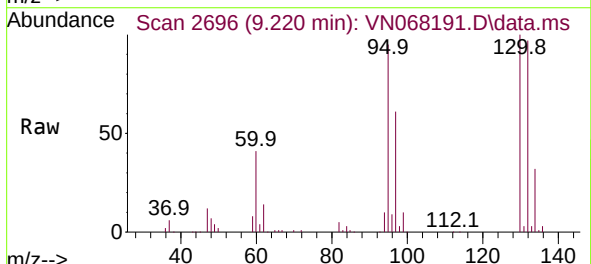
Instrument :  
MSVOA\_N  
ClientSampleId :  
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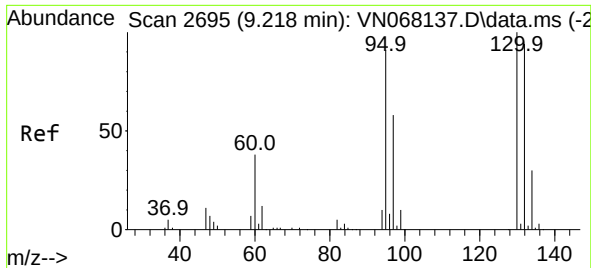
Tgt Ion: 117 Resp: 4912  
Ion Ratio Lower Upper  
117 100  
119 71.7 75.4 113.2#  
121 20.6 23.5 35.3#



#39  
Methylcyclohexane  
Concen: 0.469 ug/l  
RT: 9.220 min Scan# 2696  
Delta R.T. -0.242 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion: 83 Resp: 2941  
Ion Ratio Lower Upper  
83 100  
55 0.0 66.6 99.8#  
98 227.1 35.3 52.9#

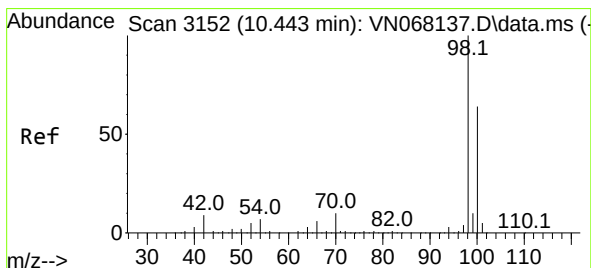
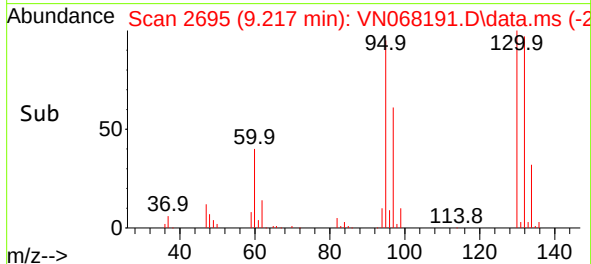
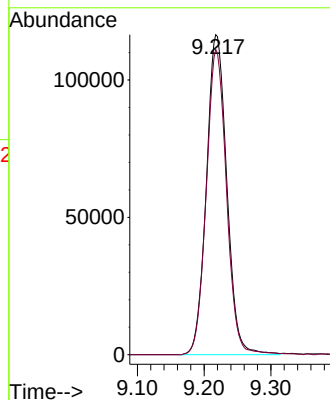
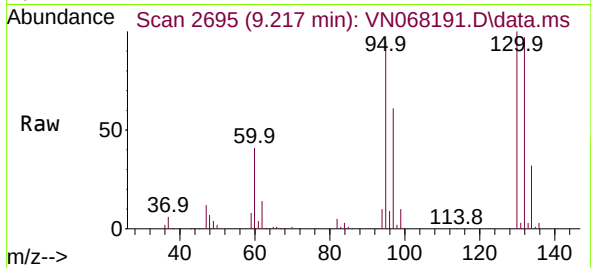




#44  
Trichloroethene  
Concen: 48.629 ug/l  
RT: 9.217 min Scan# 2695  
Delta R.T. -0.001 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

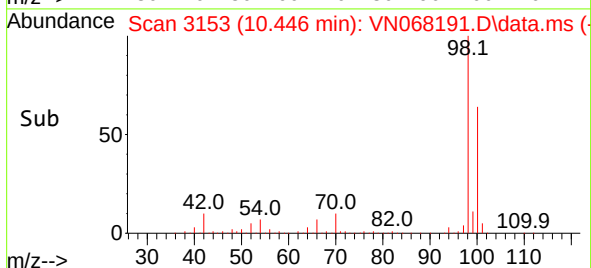
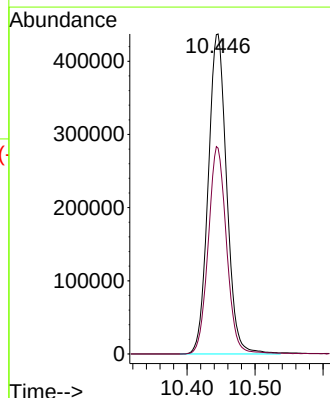
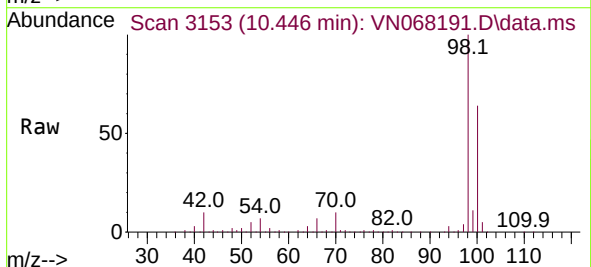
Instrument :  
MSVOA\_N  
ClientSampleId :  
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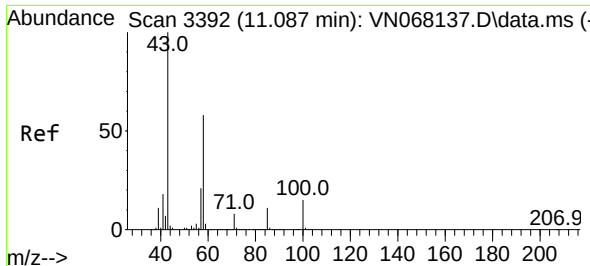
Tgt Ion:130 Resp: 247803  
Ion Ratio Lower Upper  
130 100  
95 95.4 0.0 234.4



#50  
Toluene-d8  
Concen: 50.834 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.003 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion: 98 Resp: 825918  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.7 77.5

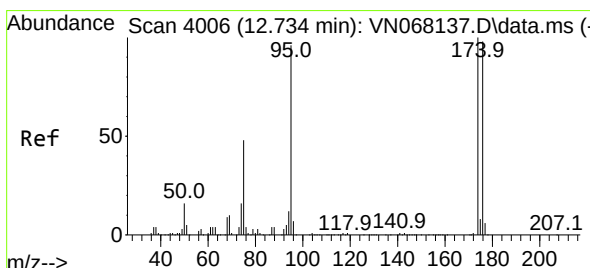
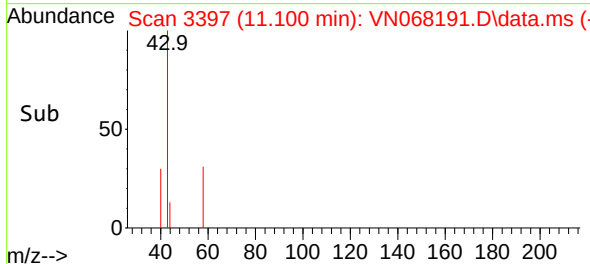
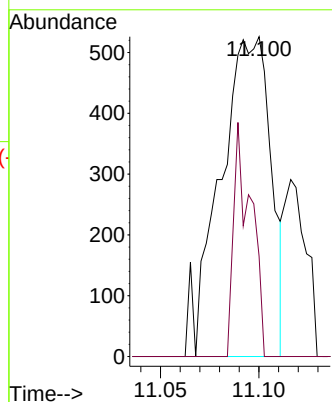
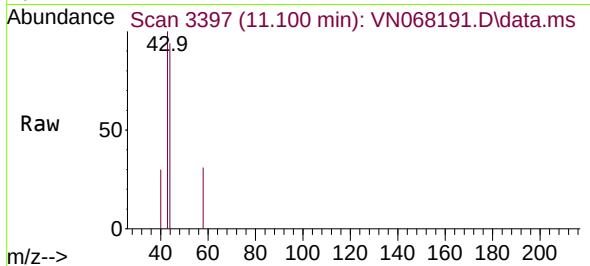




#59  
2-Hexanone  
Concen: 0.293 ug/l  
RT: 11.100 min Scan# 3397  
Delta R.T. 0.013 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

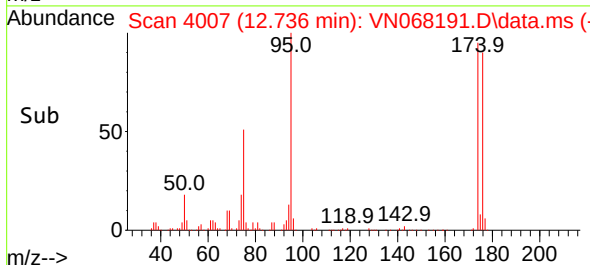
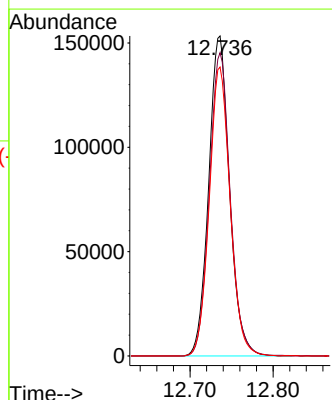
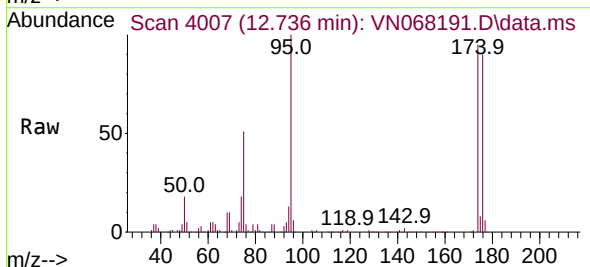
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ClientSampleId :  
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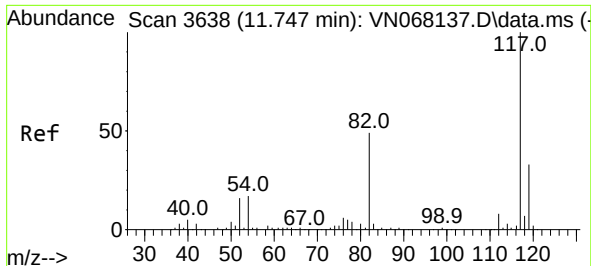
Tgt Ion: 43 Resp: 947  
Ion Ratio Lower Upper  
43 100  
58 25.1 24.7 74.1



#62  
4-Bromofluorobenzene  
Concen: 49.359 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. 0.002 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion: 95 Resp: 266963  
Ion Ratio Lower Upper  
95 100  
174 95.3 0.0 122.0  
176 90.5 0.0 117.6

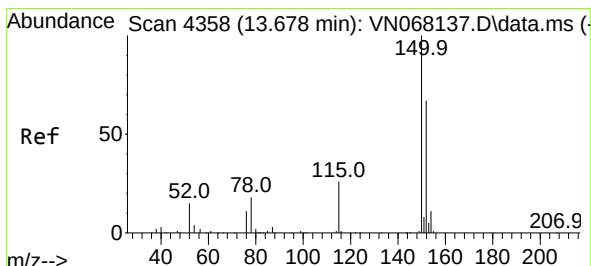
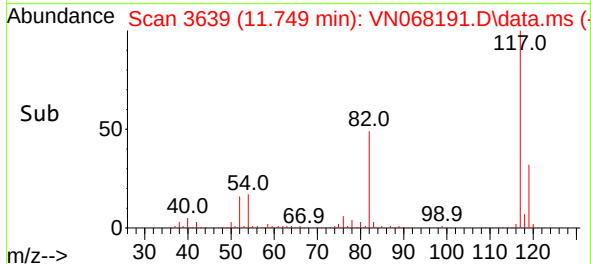
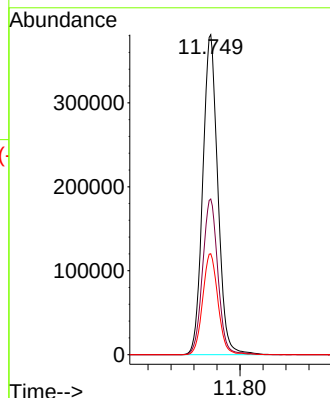
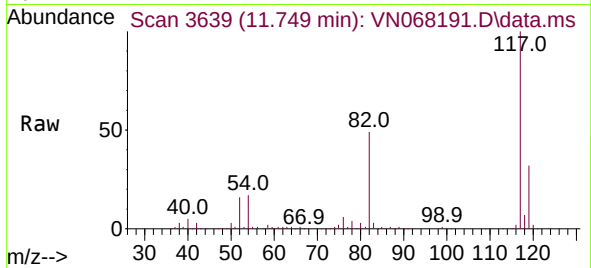




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.002 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

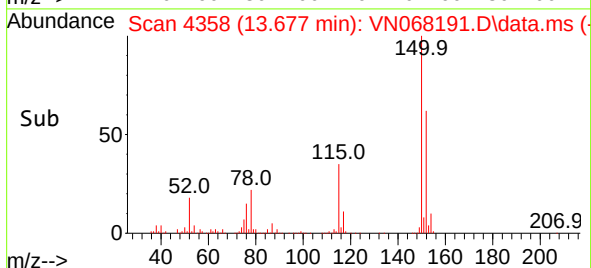
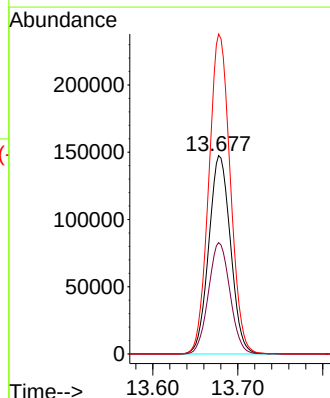
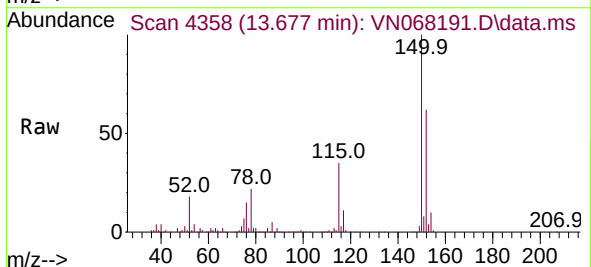
Instrument :  
MSVOA\_N  
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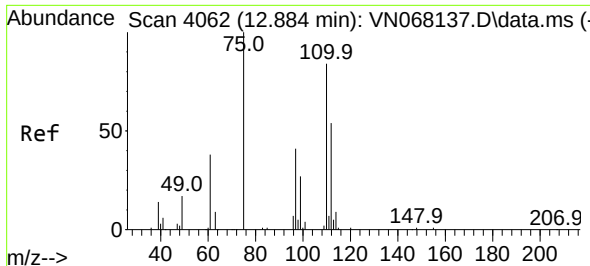
Tgt Ion:117 Resp: 693029  
Ion Ratio Lower Upper  
117 100  
82 48.7 53.1 79.7#  
119 31.5 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.677 min Scan# 4358  
Delta R.T. -0.001 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

Tgt Ion:152 Resp: 262272  
Ion Ratio Lower Upper  
152 100  
115 55.6 36.1 108.5  
150 159.1 0.0 351.8

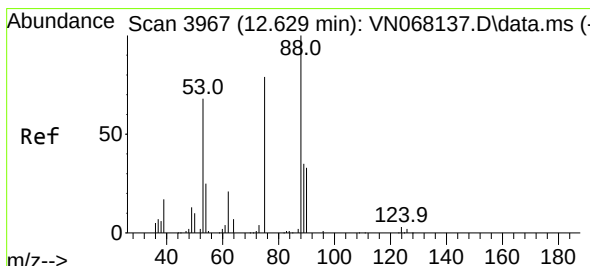
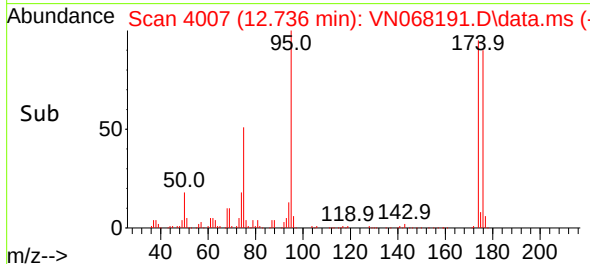
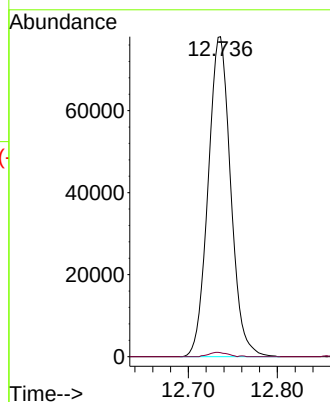
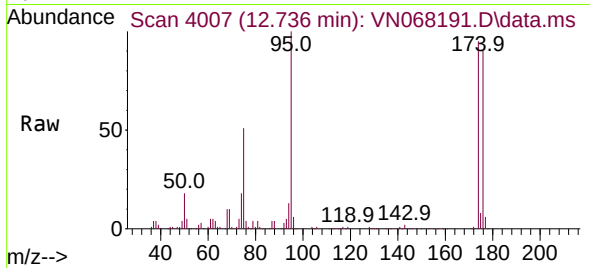




#76  
1,2,3-Trichloropropane  
Concen: 31.498 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. -0.148 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

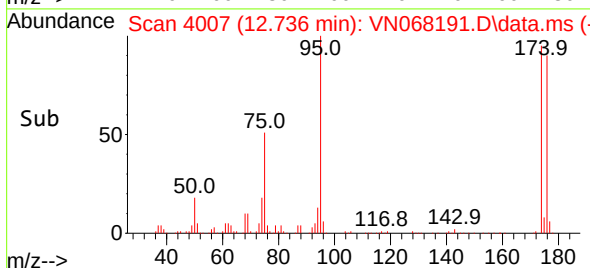
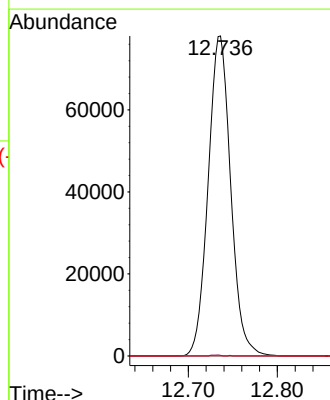
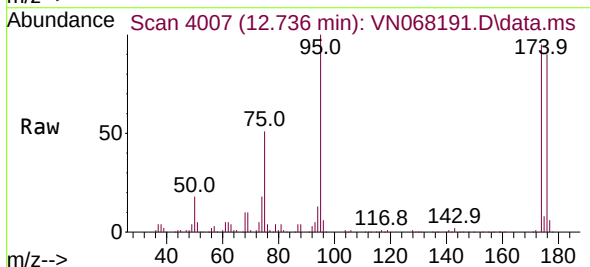
Instrument :  
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ClientSampleId :  
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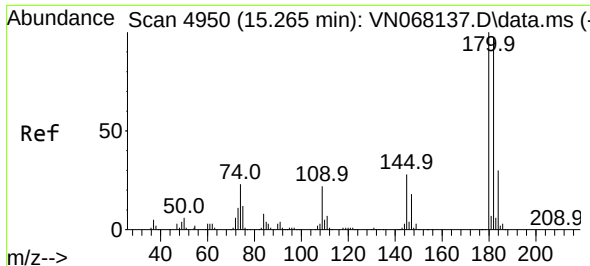
Tgt Ion: 75 Resp: 137306  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 103.192 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. 0.107 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

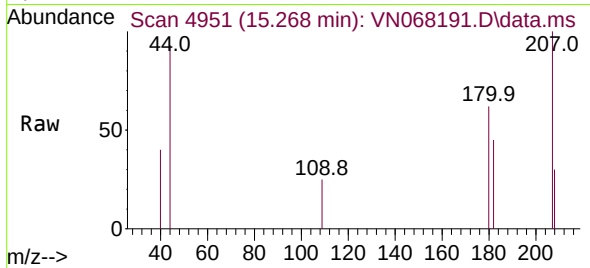
Tgt Ion: 75 Resp: 137306  
Ion Ratio Lower Upper  
75 100  
53 0.1 87.6 131.4#  
89 0.0 37.8 56.8#



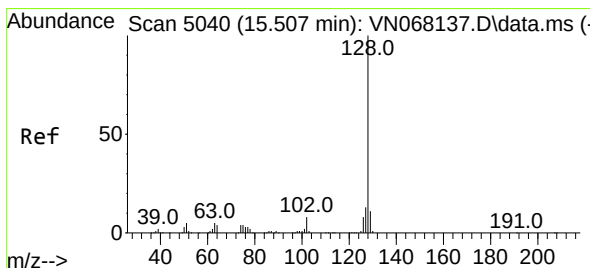
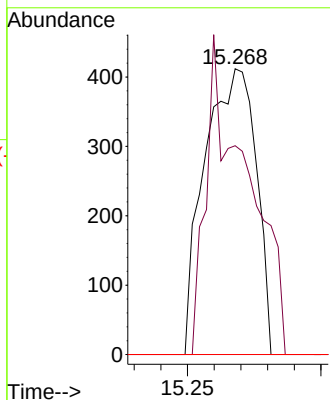
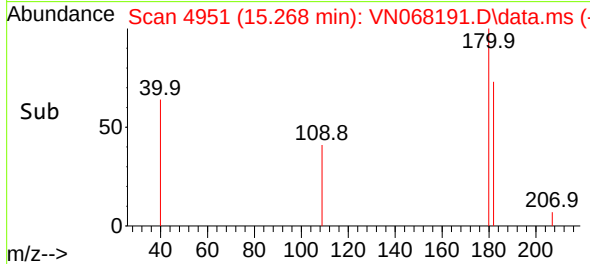


#93  
1,2,4-Trichlorobenzene  
Concen: 2.804 ug/l  
RT: 15.268 min Scan# 4951  
Delta R.T. 0.003 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21

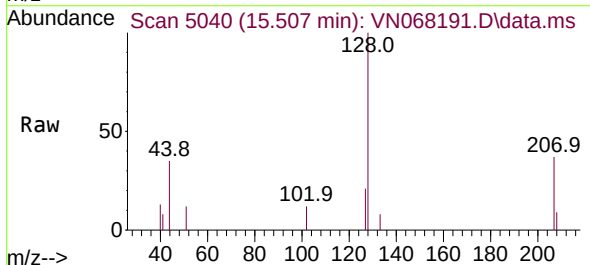
Instrument :  
MSVOA\_N  
ClientSampleId :  
RW6B-GW-20210816DL



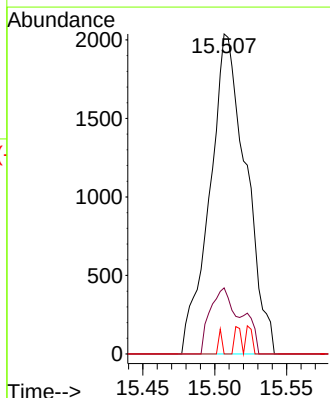
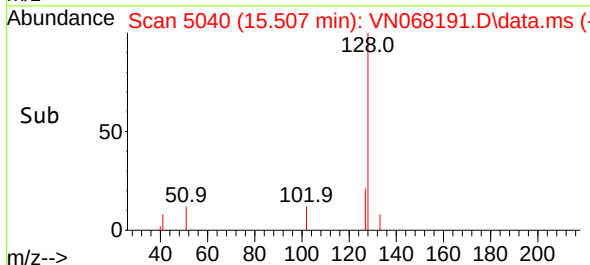
Tgt Ion:180 Resp: 551  
Ion Ratio Lower Upper  
180 100  
182 88.6 47.5 142.5  
145 0.0 17.2 51.6#



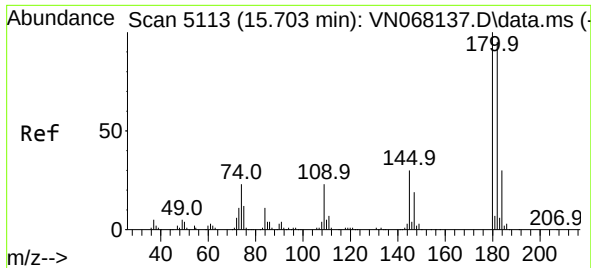
#95  
Naphthalene  
Concen: 3.668 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN068191.D  
Acq: 18 Aug 2021 14:21



Tgt Ion:128 Resp: 3566  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.6 15.8  
129 0.7 8.6 12.8#

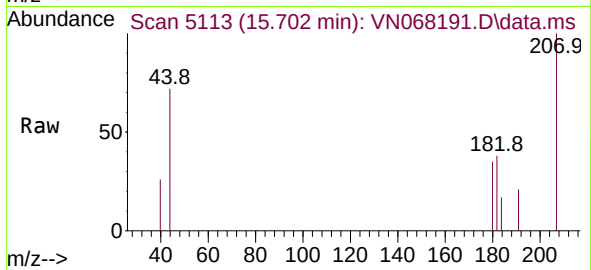






#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.967 ug/l  
 RT: 15.702 min Scan# 5113  
 Delta R.T. -0.001 min  
 Lab File: VN068191.D  
 Acq: 18 Aug 2021 14:21

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 599   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 91.7  | 47.8  | 143.3 |
| 145      | 0.0   | 18.2  | 54.6# |

